

WHAT IS CLAIMED IS:

1. A charging communication-adaptor for a mobile device,
comprising:

5 a first arrangement that includes a first component, first
charging terminals, and a protrusion, wherein

the first component is pressed down and rotates at a
certain angle when the mobile device is attached to the charging
communication-adaptor;

10 the first charging terminals protrude to make a contact
with second charging terminals of the mobile device when the first
component is pressed down and rotates; and

the protrusion moves in a certain direction when the first
component is pressed down and rotates; and

15 a second arrangement that includes a second component and
first communication terminals, wherein the second component is
arranged at a certain distance, in the certain direction, from the
protrusion, and

20 the second component makes a contact with the protrusion and
the first charging terminals make a contact with the second charging
terminals before the protrusion moves in the certain direction and starts
to press down the second component, and

25 the first communication terminals protrude to make a contact
with second communication terminals of the mobile device when the
protrusion presses down the second component and the second
arrangement rotates at a certain angle.

2. The charging communication-adaptor according to claim 1,
wherein

if ends of the second charging terminals are flat, ends of the first
5 charging terminals are convex,

if ends of the second charging terminals are convex, ends of the
first charging terminals are flat,

if ends of the second communication terminals are flat, ends of
the first communication terminals are convex,

10 if ends of the second communication terminals are convex, ends
of the first communication terminals are flat.

3. The charging communication-adaptor according to claim 1,
wherein a first axis rotates and protrudes the first power terminals when
15 the first component is pressed down, a second axis rotates and
protrudes the first communication terminals when the second
component is pressed down, an angle between the first axis and the
second axis is 0 degrees or 90 degrees.

20 4. The charging communication-adaptor according to claim 1, the
first arrangement includes a cover that is removed to expose the first
communication terminals.

5. The charging communication-adaptor according to claim 4,
25 wherein the cover includes a cleaning component on an inner surface or

an outer surface,

the cleaning component on the inner surface cleans tips of the first communication terminals when the cover is removed, and

the cleaning component on the outer surface of the cover cleans
5 tips of the second communication terminals when the cover is removed.

6. The charging communication-adaptor according to claim 1,
wherein the communication terminals are Universal Serial Bus (USB)
terminals.

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7. A charging communication-adaptor for a mobile device,
comprising:

first charging terminals; first communication terminals, wherein
the first charging terminals are longer than the first communication
15 terminals, and

when the mobile device is attached to the charging
communication-adaptor, the first communication terminals make a
contact with second communication terminals of the mobile device after
the first charging terminals make a contact with second charging
20 terminals of the mobile device.

8. The charging communication-adaptor according to claim 7,
wherein

if ends of the second charging terminals are flat, ends of the first
25 charging terminals are convex,

if ends of the second charging terminals are convex, ends of the first charging terminals are flat,

if ends of the second communication terminals are flat, ends of the first communication terminals are convex,

5 if ends of the second communication terminals are convex, ends of the first communication terminals are flat.

9. The charging communication-adaptor according to claim 7, further comprising a cover that is removed to expose the first

10 communication terminals.

10. The charging communication-adaptor according to claim 9, wherein the cover includes a cleaning component on an inner surface or an outer surface,

15 the cleaning component on the inner surface cleans tips of the first communication terminals when the cover is removed, and

the cleaning component on the outer surface of the cover cleans tips of the second communication terminals when the cover is removed.

20 11. The charging communication-adaptor according to claim 7, wherein the communication terminals are Universal Serial Bus (USB) terminals.